

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
WO 2005/004858 A1

(51) International Patent Classification<sup>7</sup>: A61K 31/37, 35/78, 31/70, 31/7048, 8/97, A61Q 19/06, A61P 17/00

(21) International Application Number:  
PCT/EP2004/007375

(22) International Filing Date: 6 July 2004 (06.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
MI2003A001427 11 July 2003 (11.07.2003) IT

(71) Applicant (for all designated States except US): INDENA S.P.A. [IT/IT]; Via Ortles, 12, I-20139 Milano (IT).

(72) Inventor; and  
(75) Inventor/Applicant (for US only): BOMBARDELLI, Ezio [IT/IT]; Via Val di Sole, 22, I-20141 Milano (IT).

(74) Agents: BIANCHETTI, Giuseppe et al.; Via Plinio, 63, I-20129 Milano (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/004858 A1

(54) Title: COMBINATIONS OF VASOACTIVE AGENTS, THEIR USE IN THE PHARMACEUTICAL AND COSMETIC FIELD, AND FORMULATIONS CONTAINING THEM

(57) Abstract: This invention relates to combinations of vasoactive substances which act at venous or arterial level with phosphodiesterase inhibitors including phosphodiesterase V, in particular: visnadin or esculoside; at least one compound selected from icarin or derivatives thereof or extracts containing it, Gingko biloba dimeric flavones either in the free form or complexed with phospholipids, amentoflavone; at least one compound selected from escin, escin beta-sitosterol complexed with phospholipids, sericoside, sericoside complexed with phospholipids or Centella asiatica extract in the free form or complexed with phospholipids. The formulations according to the invention are useful in reducing paroxysmal and problems associated with venous insufficiency of the lower limbs.